PATENT COOPERATION TREATY

INTERNAT	IONAL SEARC	HING AUTH	ORITY				
To: JOEL STEIN EITAN, PEARL, LATZER & COHEN-ZEDEK 7 SHENKAR STREET I-TERZLIA, 46725			venev	PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			CEDEK				
ISRAEL				INTERNATIO			
					(PCT Rule 43bis.1)		
				Date of mailing (day/month/year) 有名 AUS 八面版			
Applicant's or agent's file reference				FOR FURTHER ACTION See paragraph 2 below			
P-6259-PC International application No International filin			International filing date	 (day/month/year)	Priority date (day/month/year)		
PCT/IL04/01182			29 December 2004 (29.12.2004)		31 December 2003 (31.12.2003)		
		ication (IPC)	or both national classification and IPC				
IPC(7): A	61B 1/04, 1/06 ar	ıd US Cl.: 600)/117, 476				
Applicant			· · · · · · · · · · · · · · · · · · ·				
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1 This	nninion contains i	ndications rel	ating to the following item	R.			
	Box No 1	Basis of the					
	Box No. II	Priority	, op.,,,,				
	Box No III	•	ichment of aninian with m	gard to novalty inve	ntive step and industrial applicability		
	Box No. IV		·	gard to noverty, mve	mive step and moustrar applications		
			ty of invention				
	Box No V	Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement					
	Box No VI	Certain doc	uments cited				
	Box No VII	Certain def	ects in the international ap	plication			
\boxtimes	Box No VIII	Certain obs	ervations on the internatio	nal application			
2 FUR	THER ACTIO	N					
Intern Autho	ational Preliminarity other than the	ary Examinin nis one to be	g Authority ("IPEA") ex	ccept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an le International Bureau under Rule 66 1bis(b) ered		
IPEA	a written reply to	ngether, where		ments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For fu	rther options, see	Form PCT/IS	SA/220				
3 For fu	rther details, see	notes to Form	PCT/ISA/220		_		
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	mailing address o Aail Stop PCT, Attı		j	Authorized office			
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/	Mexandria, Virginia			Telephone No (5	571) 272-2975		
	No. (703) 305-32 SA/237 (cover sh				·		

International application No.

PCT/IL04/01182

Box No. I Basis of this opinion				
1 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item				
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12 3 and 23 1(b))				
2 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a type of material				
a sequence listing				
table(s) related to the sequence listing				
b format of material				
in written format				
in computer readable form				
c time of filing/furnishing				
contained in international application as filed				
filed together with the international application in computer readable form.				
furnished subsequently to this Authority for the purposes of search				
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished				
4 Additional comments:				

Form PCT/ISA/237 (Box No V) (January 2004)

International application No PCT/IL04/01182

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1 Statement							
Novelty (N)	Claims 13		YES				
		14-28					
Inventive step (IS)	Claims NON	E	YES				
	Claims 1-28						
Industrial applicability (IA)	Claims 1-28		YES				
mados las approaches (111)		Ė					
2. Citations and explanations:							
Claims 1-28 meet the criteria set forth in PCT Articl	e 33(4) because the cl	aimed subject matter can be made	and/or used in industry				
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International application No.

PCT/IL 04/01182

Box No. VIII	Certain observations on the international application						
The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:							
Claim 6 is objected to under PCT Rule 66 2(a)(v) as lacking clarity under PCT Article 6 because claim 6 is indefinite for the following reason(s): the location of the detector has nothing to do with whether or not illumination from the illumination source is received a the imager—It appears that this claim should be more properly reciting the location of the illumination source, not the detector							
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International application No PCT/IL04/01182

	Supplemental Box	
	n case the space in any of the preceding boxes is not sufficient	
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V. 2. Citations and Explanations:

Claims 1-6, 8-12, 14-16, 18-26 and 28 lack novelty under PCT Article 33(2) as being anticipated by Kawashima Kawashima discloses an in-vivo device (endoscope 1) comprising an illumination source (10a), a detector (9a), and a processor (14a,16), which, base on signals from the detector, determines a location (col.3, lines 48-53). The detectors receive light from the body lumen wall (Fig 5). The processor indicates movement by determining relative distances to the lumen walls, whether is it one area to another or from a small lumen to a large one. The device includes an imager (objective lens system 6). Illumination from source (10a) is not received by imager (6) (note that illumination source (10a) is on lateral side of the device whereas the imager is facing distally. The device further includes a primary light source (8) positioned behind an optical window (4). The imager can be considered a detector since objective lens system (6) detects light for imaging. The processor (as shown in Figure 4) is disposed within the device (col 4, lines 8-12). The processor receives signals from the detector and controls movement of the device and is thus a "controller". The device further comprises a transmitter (wire 12a). As to the method claims, the intensity of light (which is a quality of light) is compared and the result (pretedetermined threshold) indicates the location within the lumen. The result controls a mode of bending in the operation unit.

Claims 1-5, 7-12, 14, 16-18, 20-24 and 26-28 lack novelty under PCT Article 33(2) as being anticipated by Avni et al. Avni et al. disclose swallable capsule comprising an illumination sources(38N), a detector (32), a processor/controller (36,Fig. 2) disposed within the device or, an optical window (21) and a transmitter (34). The detector is an imager (CMOS or CCD, [0034]) that is configure to receive light and indicate movement (plurality of frames). The controller/processor (36) is configured to receive signals from the detector [0037] and trigger an event (change mode) in the device (e.g., transmit image data, [0038]). Using another detector (42 or 67), the location (whether or not the capsule is close to the lumen wall) can be determined ([0055]) and an event (illumination intensity) can be controlled

Claim 7 lacks an inventive step under PCT Article 33(3) as being obvious over Kawashima. Kawashima disclose that the detector is a "light receiving element adapted to produce an electromotive force in response to reflected light" but fails to disclose any particular kind it would have been obvious to one of ordinary skill in the art to use any known light receiving element at the time of the invention. All of CMOS, CCD and photodiodes were notoriously well known light receiving elements at the time of the invention.

Claim 13 lacks an inventive step under PCT Article 33(3) as being obvious over Kawashima. Kawashima suggests that the processor is within the operating end of the scope device and thus fails to disclose that the processor is external to the device. Locating the processor external to the device would have been an obvious design expedient since such shifting of the processor location to an external one would desirably make the device smaller and lighter, while affording the same processing capabilities. In addition, replacement of the processor if external would not require destroying the sealed nature of the scope.

Claim 13 lacks an inventive step under PCI Article 33(3) as being obvious over Avni et al. Avni et al. disclose the processor is within the operating end of the scope device and thus fails to disclose that the processor is external to the device. Locating the processor external to the device would have been an obvious design expedient since such shifting of the processor location to an external one would desirably make the device smaller and lighter, while affording the same processing capabilities. In addition, replacement of the processor if external would not require destroying the sealed nature of the capsule

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has after having received the international search report one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file; mendments of the claims under Article 19 except where e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication Furthermore, it should be emphasized that provisional protection is available in some States only

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable. Article 41

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1)

Where not to !!le the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2)

Where a demand for international preliminary examination has been/is filed, see below

How! Either by cancelling one or more entire claims! 2 Joing one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments differs from the sheet originally filed

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is can lelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions. Section 205(b))

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is carcelled
- the claim is new: tiiil
- the claim replaces one or more claims as filed;
- the claim is the result of the division of a claim as filed

The following examples illustrate the manner in which amendments must be explained in the accompanying

- [Where onginally there were 48 claims and after amendment of some claims there are 51]: "Claims I to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30. 33 and 36 unchanged: new claims 49 to 51 added
- [Where onginally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11"
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." "Claims 7 to 13 cancelled; new claims 15 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 Lmchanged; claims 1) to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

-Statement under Article 19(1)" (Rule 46.4)

The amendments chay be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under the local to Article 19(1))

The statement wild be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)"

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim

Consequence if a demand for international preliminary examination has already been filed

If at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2. first sentence) For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicants amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to the translation of the claims as filed.

For further details on the requirements of each designated elected Office see the PCT Applicant's Guide. Volume II